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TES PATENT AND TRADEMARK OFFICE

In re the Application of: YAMANE, Takeshi

Group Art Unit: 1714

Serial No.: 09/867,565

Examiner: Katarzuna I. Wyrozeb

Filed: May 31, 2001

P.T.O. Confirmation No.: 7576

PROCESS FOR PRODUCING FRICTION MATERIAL AND FRICTION For: MATERIAL OBTAINED BY THE PROCESS

RESPONSE UNDER 37 CFR §1.116 - EXPEDITED RESPONSE -**GROUP ART UNIT 1714**

MAILSTOP AF

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Sir:

October 2, 2003

In response to the Office Action dated July 2, 2003, please amend the above-identified application as follows:



PROCESS FOR PRODUCING FRICTION MATERIAL AND FRICTION

MATERIAL OBTAINED BY THE PROCESS

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BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to a process for producing a friction material, and, particularly to a process for producing a friction material used in, for example, brakes of trucks, cars or the like and to a friction material obtained by this process.

Description of the Related Art

Conventionally, a friction material for brakes of vehicles is usually obtained by binding 5 to 20 ingredients of raw material by using a thermosetting resin. An example of the process will be shown below.

- 1. Raw materials are compounded in the ratios to be specified and the compounded raw materials are mixed using a known mixer, such as a Henschel mixer, Leodige mixer, Eirich mixer, Banbury mixer, kneader or V-type blender, which has a blade rotating at high speed while opening fibrous materials to obtain a mixture.
- The sufficiently blended mixture is molded under heating and pressure.
- 3. Thereafter, the molded product is after-cured depending on the requirement to obtain a friction material.
- 4. Further, depending on the requirement, only the surface of the friction material is heat-treated at high